π-Vu Central Basic User's Manual

Version 1.6.0.8

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Minimum System Requirements

Hardware requirement:

- CPU: P4-2.4Ghz or Dual Core and above
- RAM: Minimum 1 GB, 2GB or above is recommended
- HDD: SATA 200GB or above is recommended
- Display card: Independent display card suggested
  - **Make sure your display DPI setting is set to default at 96DPI**
  - **To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"**
- Ethernet interface: 10/100Mb Ethernet card or above

Software requirement:

- OS: Windows XP SP2, Windows Vista, Windows 7, Windows 2003

Installation CD Contents

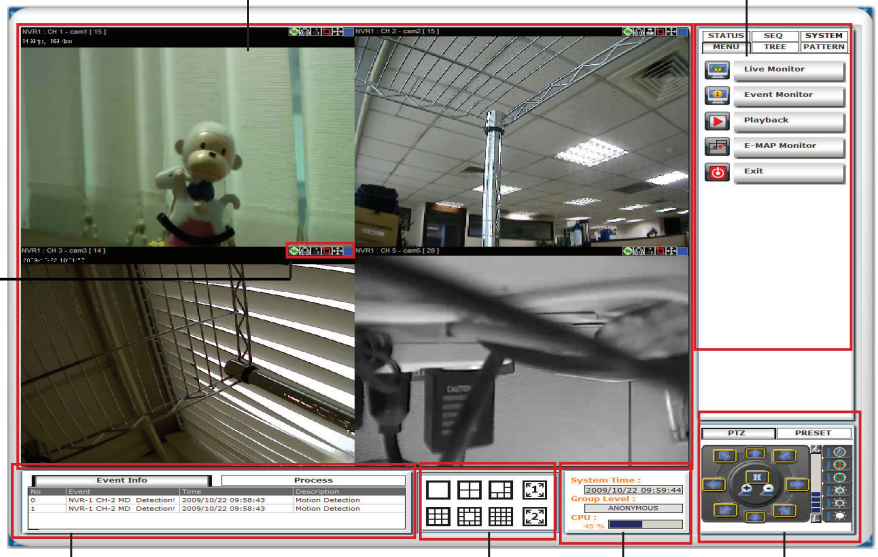
- Adobe Acrobat Reader
- Installation File
- Quick Installation Guide
- User's Manual
- Datasheet

User Interface Overview

1

Live Video
This is the section where the live videos are displayed

Menu Bar
This is where all functions can be accessed



Quick Access
Quick access buttons to certain functions that you can do to a live video

System Logs
Display system status information

Split Video Windows
Switch among different window split modes

System Info
Display the system information

PTZ Control
Control the PTZ camera

Live Video: This is where all the videos are displayed. You can decide what channels' videos to be displayed here by dragging cameras from the side menu bar and dropping them anywhere in this section.

Menu Bar: This is where you can access all functions of the software. Camera list and device status information are also available from the menu bar.

PTZ Control: This is where you can pan, tilt, zoom the selected PTZ camera. Functions such as preset point nevagation and auto pan can also be accessed here

System Info: It provides information of current system time, who is currently logged in and the CPU usage that the software is currently consuming.

Split Video Windows: You can change the video split windows with you desire depends on how many videos you wish to view at a time.

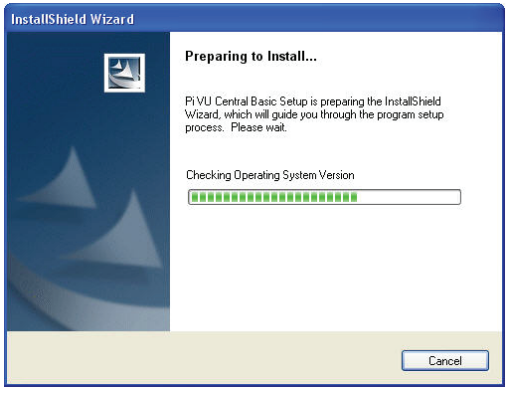
System Logs: System status such as motion detection, functions that were accessed or settings that were altered are displayed here.

Quick Access: Each video window comes with quick access buttons which allows you to quickly take certain actions to the video you are viewing.

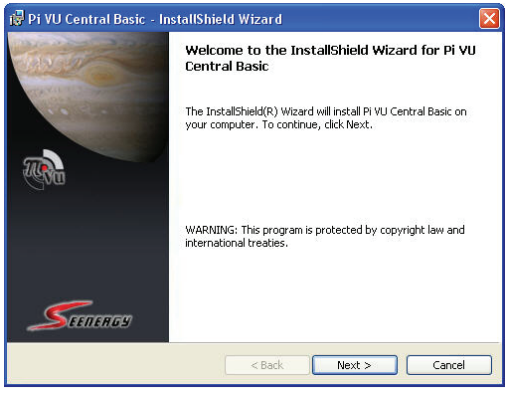
Begin Installation

The installation should launch as soon as you insert the CD. If not, simply double-click on your CD-ROM drive icon in “My Computer” to launch the installer.

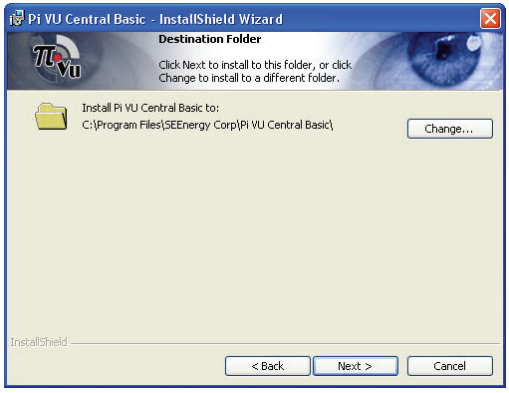
Once the installer is launched, it should start by checking the compatibility with the operating system you are running this installation on.


InstallShield Wizard
Preparing to Install...
Pi VU Central Basic Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Checking Operating System Version
Cancel

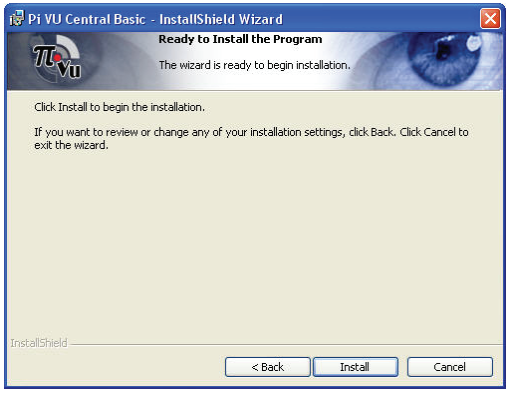
Once the compatibility check is passed, you can begin the installation by clicking “next”.


Pi VU Central Basic - InstallShield Wizard
Welcome to the InstallShield Wizard for Pi VU Central Basic
The InstallShield(R) Wizard will install Pi VU Central Basic on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

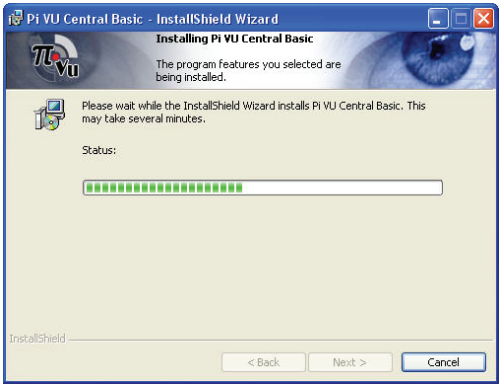
The installer will install the program in a pre-defined directory. You can accept the default and click “Next” to proceed with the installation.


Pi VU Central Basic - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install Pi VU Central Basic to:
C:\Program Files\SEEnergy Corp\Pi VU Central Basic\
Change...
InstallShield
< Back
Next >
Cancel

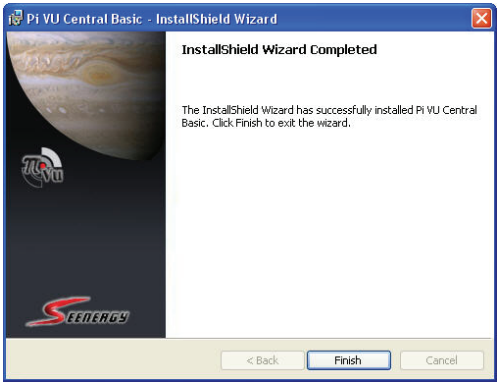
The installer will confirm the installation directory one more time. Click “Install” to begin installation, or click “Back” to change the installation directory.


Pi VU Central Basic - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

The installer will display the installation process.

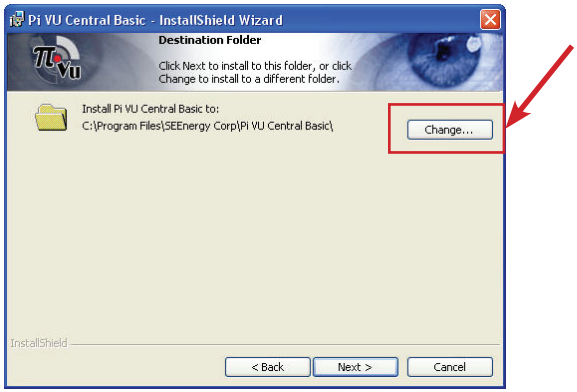

Pi VU Central Basic - InstallShield Wizard
Installing Pi VU Central Basic
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs Pi VU Central Basic. This may take several minutes.
Status:
InstallShield
< Back
Next >
Cancel

Once the installation is complete, click “Finish” to exit out the installer.

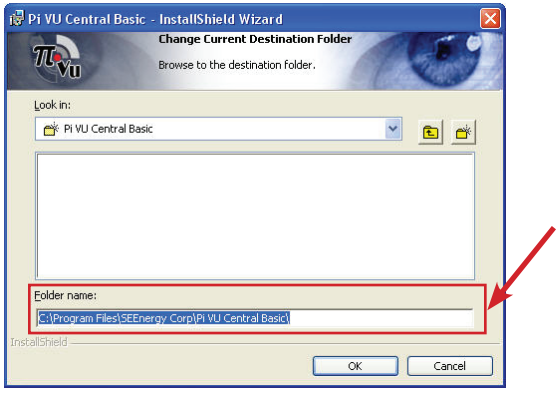

Pi VU Central Basic - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Pi VU Central Basic. Click Finish to exit the wizard.
< Back
Finish
Cancel

Change Installtion Directory

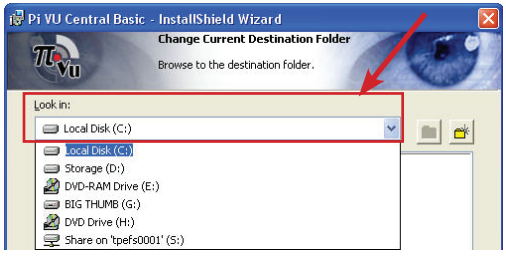
If you wish to install the program other than its pre-defined directory, click “Change” at the prompt where it displays the pre-defined directory,


Pi VU Central Basic - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install Pi VU Central Basic to:
C:\Program Files\SEEnergy Corp\Pi VU Central Basic\
Change...
InstallShield
< Back
Next >
Cancel

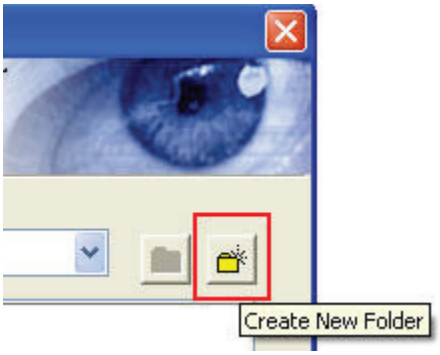
You will be prompted with a new window in which you can type in the new directory at the bottom.



Or you can choose the directory from the drop down menu.



If you need to install in a folder that doesn't exist yet, click "Create New Folder" to create it.

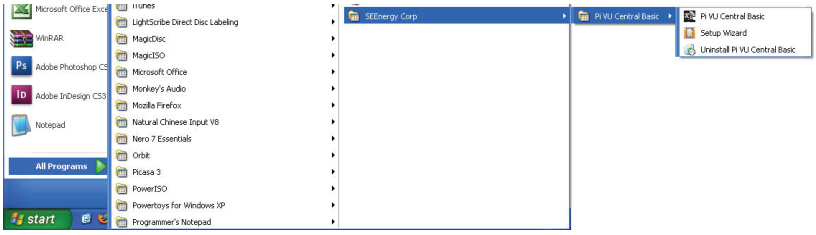


Start the CMS software

After the prgram is successfully installed on the PC, there are two ways to start it.

- Start it from the "Start" menu:

Simply go to "Start" >> "All Programs" >> "Seen-ergy" >> "π-Vu Central Basic">> "π-Vu Central Basic



- Start it from the desktop:

The program automatically creates a shortcut icon on your desktop after it's successfully installed. Simply double-click the icon to launch the program.

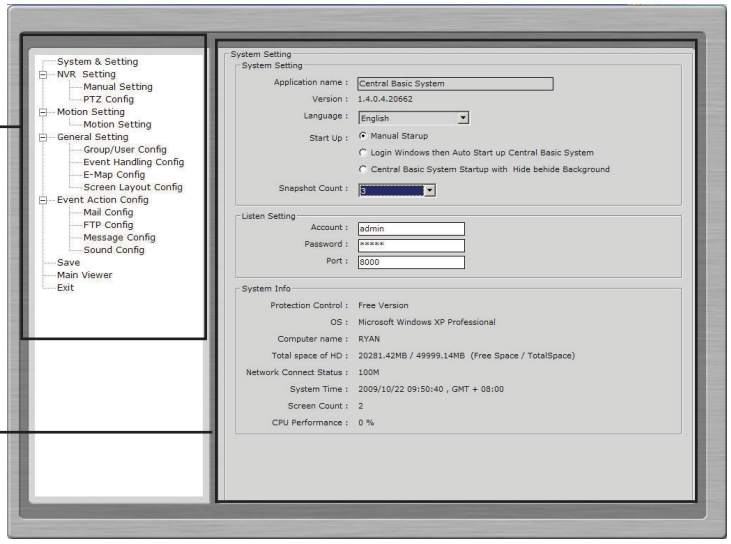
* You should run the "Setup Wizard" before launching the CMS software. The Setup Wizard is a separate program which you can launch it the same way you launch the CMS software (from Start menu). The purpose of the Setup Wizard is to help users with certain preliminary settings in order for the program to work with NVR network video recorder.

Using the Setup Wizard

3

Menu options --
Lists all the menu options available in the Setup Wizard

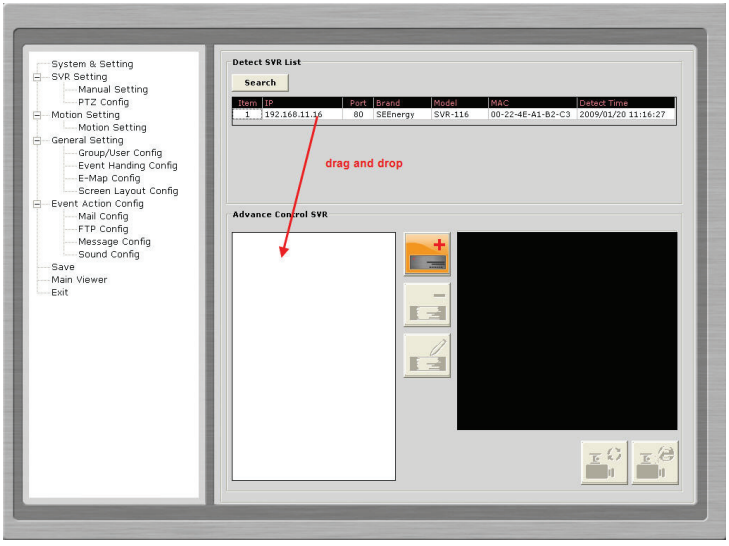
Configuration Window --
Displays configuration parameters of the selected menu option



It's necessary to use the Wizard

The majority of the settings of the CMS software relies on its Setup Wizard. It's necessary that you run the wizard prior to using the CMS software.
With the Setup Wizard, you are able to:

- Add/Remove/Edit one or more NVRs
- Configure PTZ preset points
- Configure Intelligent Detection
- Configure user privileges
- Configure how events are handled
- Configure E-map
- Configure multiple monitors
- Configure event actions

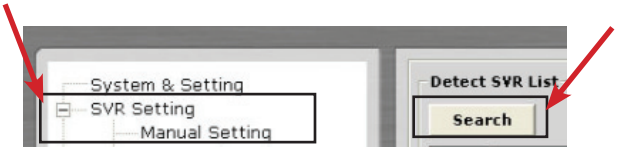


Connect the program with NVR

The main purpose of the CMS software is to manage multiple NVRs. Before it can be done, you would need to tell the program which NVR you need it to manage. You do that by adding one or more NVRs to the program through the Setup Wizard.

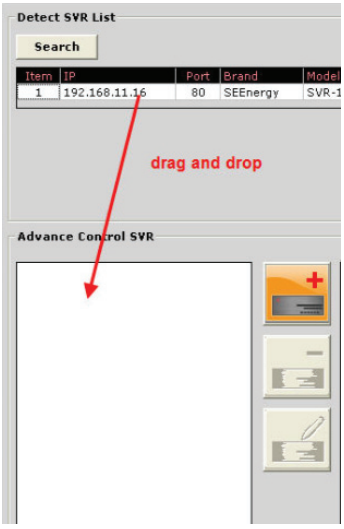
Automatic Search:

The Setup Wizard is able to find NVR on your local network automatically. Simply go to **"SVR Settings"** >> "**Manual Settings"** in the Setup Wizard, and click the search button to locate NVRs that are placed on your local network.

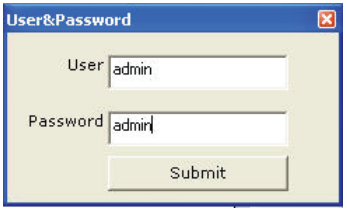


Drag and Drop to add

Once the Setup Wizard detects NVR on the network, they will be listed in the "Detect List". Simply drag one from the list and drop it in the "Advance Control List" below to add it

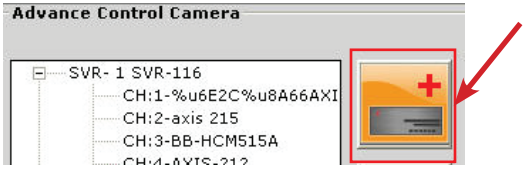


You will then be prompted with its username and password which you need to enter accordingly to complete the action.

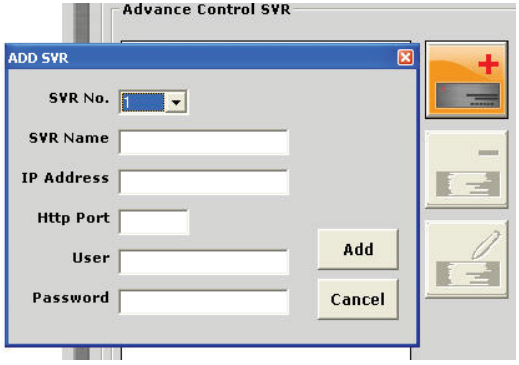


Add NVR Manually with Setup Wizard:

Simply click on the "Add NVR" button in the same page to add it manually.

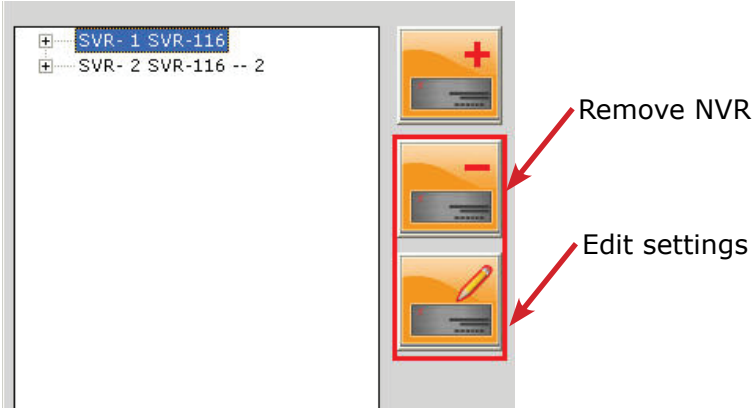


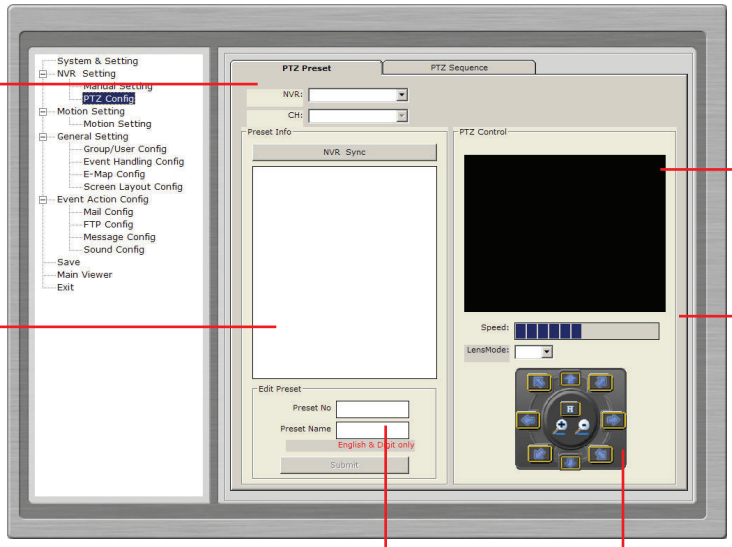
You will be asked for the information shown below before successfully adding the NVR to the program.



Remove a NVR or Edit its Settings

Once you have one or more NVR added to the program, the "Remove" and "Edit Settings" buttons will become available. Simply click to select a NVR from the list on the left and choose the corresponding button on the right.





Select NVR and camera
Select which NVR and which camera from the drop-down list

PTZ Preset Points List
List of all PTZ preset points of the selected camera

Video Pre-view
You can get a video preview of the selected camera here

PTZ Speed Control
Adjust the increment of the PTZ movements

PTZ Preset Point Name
Add a new name or alter an existing name of a preset point

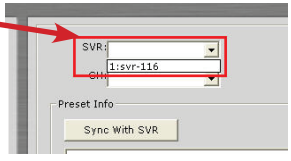
PTZ Control Panel
Use this panel to define a new preset point or make change to an existing one

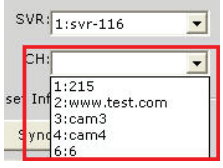
Synchronize or Add New PTZ Preset Points

You can synchronize PTZ settings from all cameras connected to the NVR on the network or you can create and add new PTZ preset points to those cameras through the Setup Wizard.

Simply select a NVR from the drop-down menu first and then select a camera to synchronize or add new PTZ preset points.

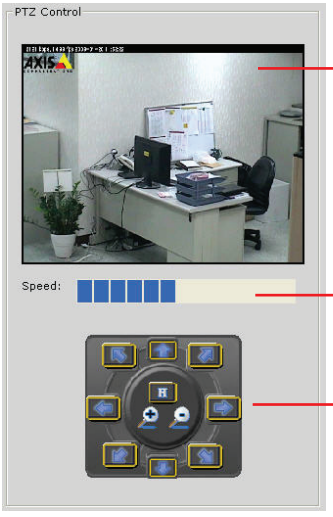
Select a NVR first





Then select a cam-era connected to the selected NVR

Use the provided PTZ control panel to define a PTZ preset point. You may change the speed of the PTZ movements if you will.

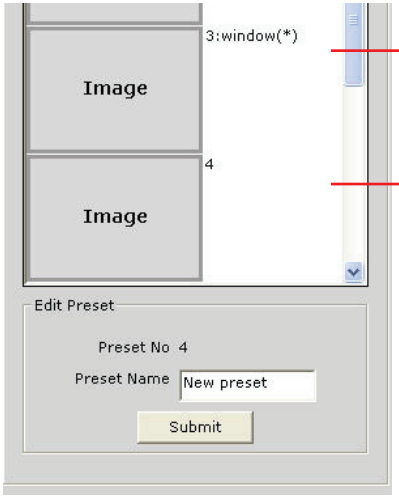


Video Preview
You can get a video preview of the selected camera here

PTZ Speed Control
Adjust the increment of the PTZ movements

PTZ Control Panel
Use this panel to define a new preset point or make change to an existing one

You can get a list of the preset points that have been added to the camera as well as the opening slots that are available which you can add new preset points to later on.

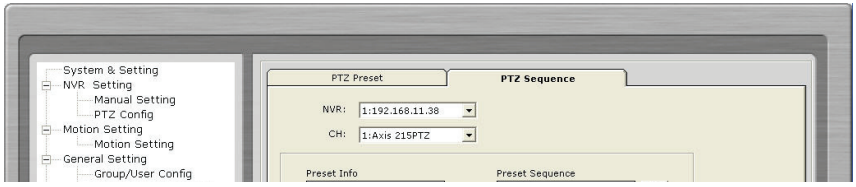


Slot configured with a PTZ preset point

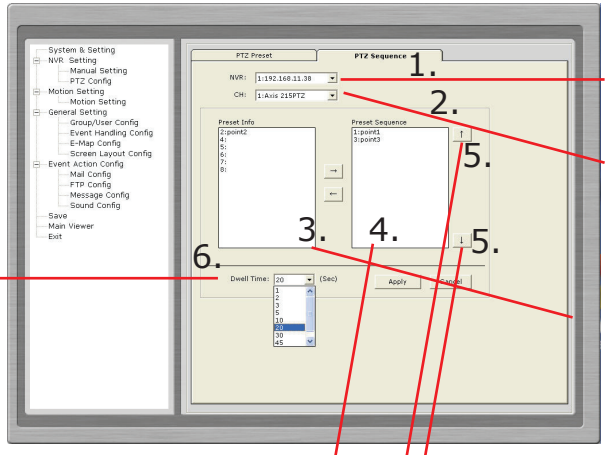
Slot that has not been configured with a PTZ preset point

Configuring PTZ Preset Sequence

You can configure the PTZ preset sequence after you create and define PTZ preset points for the cameras. To configure PTZ sequence, open the setup wizard and go to NVR setting >> PTZ Config >> PTZ sequence



You can see a list of the preset points that were added previously under the "Preset info" pane on the left (see below step 3), which you can then move ones to the right (Preset Sequence pane) for sequence viewing



Select an NVR first
Select an NVR from the drop down menu first

Select a PTZ Camera
Select a PTZ camera to configure PTZ sequence

Select Preset Points
The previously configured preset points will be listed on the left

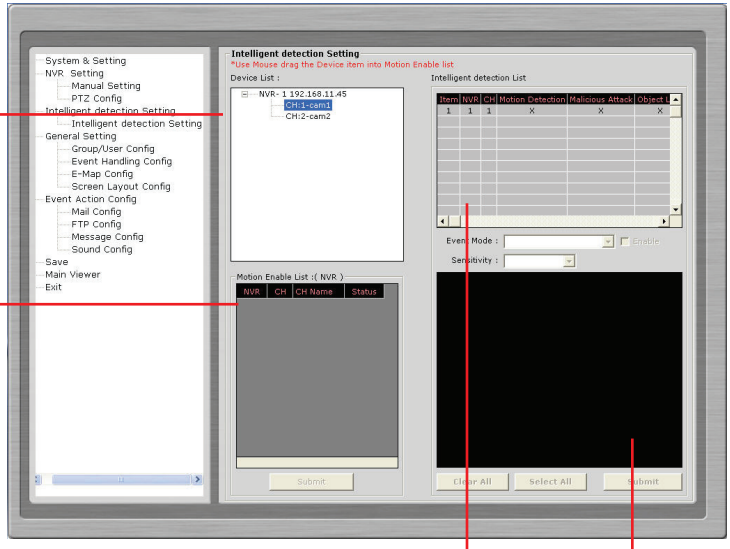
Set Dwell Time
Finally set the dwell time for sequencing view among each point

Move the ones to the right
Move the preset points to the list on the right using the → which they will be used for PTZ sequencing

Adjust Sequence Order
You can use the ↑ or ↓ buttons to adjust the sequence orders

Intelligent Detection Setting

6



Device List
Lists of all NVR and cameras

Motion Enabled List
Enable receiving motion trigger sent from the NVRs

Intelligent Detection List
Configuration status of the intelligent detection functions on each camera

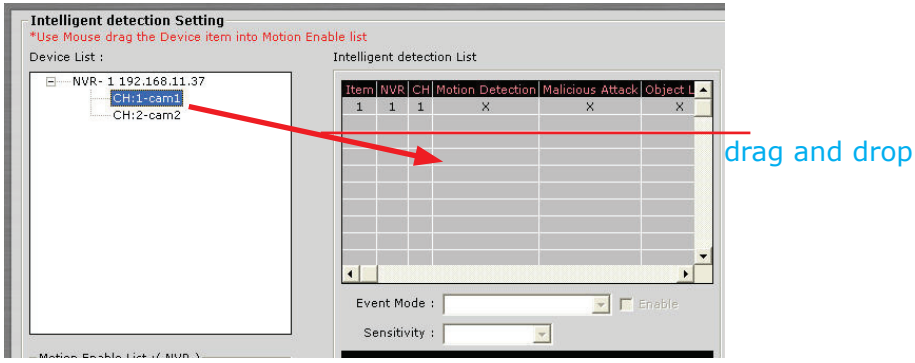
Video Preview
Video preview of the selected camera from the above list

Intelligent Detection Functions

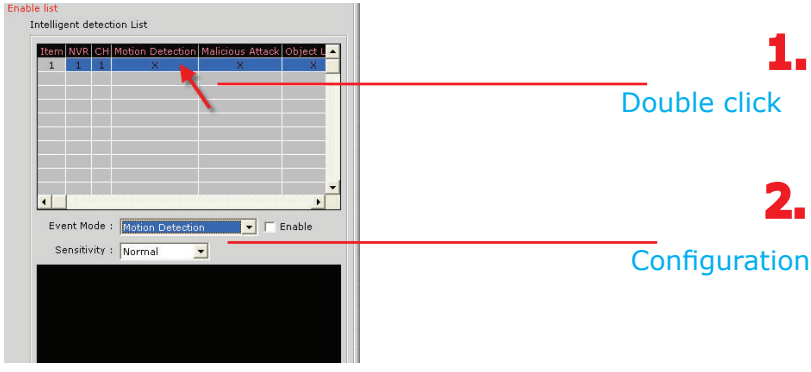
The program can be configured with multiple intelligent detection functions which can then be used to alert users when detecting something abnormal in the scene. The functions are as below:

- Motion Detection
- Malicious Attack (camera tampering)
- Object Loss Detection
- Tripwires

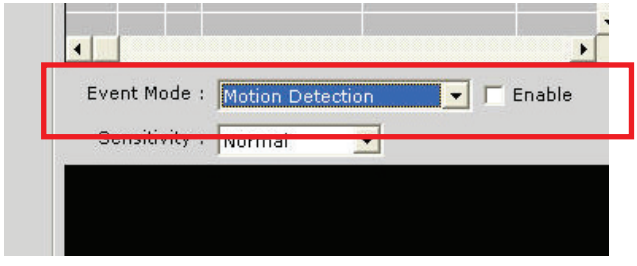
To enable and configure one of the intelligent detection functions for one or more cameras, click and drag the camera from the "Device List" onto the "Intelligent Detection List":



Double click on the desired channel in the "Intelligent Detection List" to enable configuration:

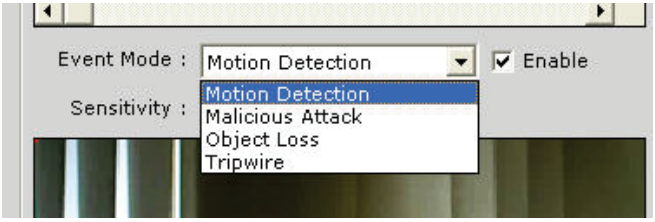


Finally, select the desired intelligent detection function from the "Event Mode" drop-down and make sure "Enable" is ticked:

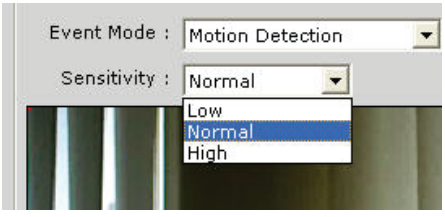


Configuring Motion Detection

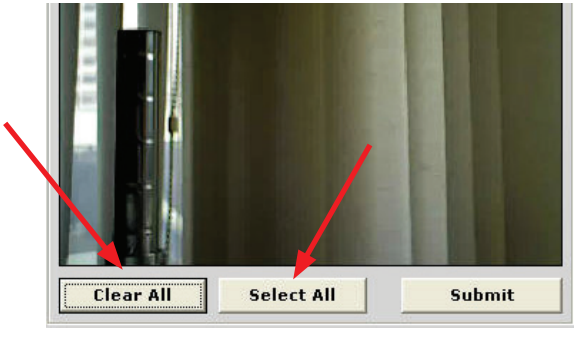
To configure motion detection, select "Motion Detection" from the "Event Mode" drop-down menu:



Next, select the desired sensitivity for motion detection:

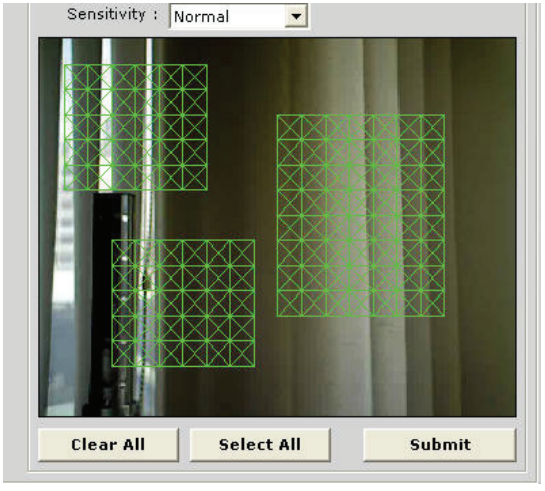


By default, the program does not have any area configured for motion detection, you can quickly click on "Select All" to enable the whole area for motion detection. You can always click on "Clear All" at anytime to start over:

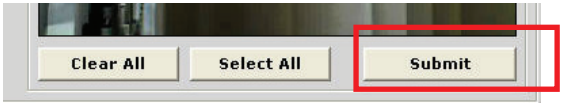


To configure a particular area for motion detection, simply click and hold down the mouse left button and move diagonally to select a desired area. You can do it repetitively to configure multiple areas for motion detection:

The configured areas will then be highlighted on the video with green cell boxes:

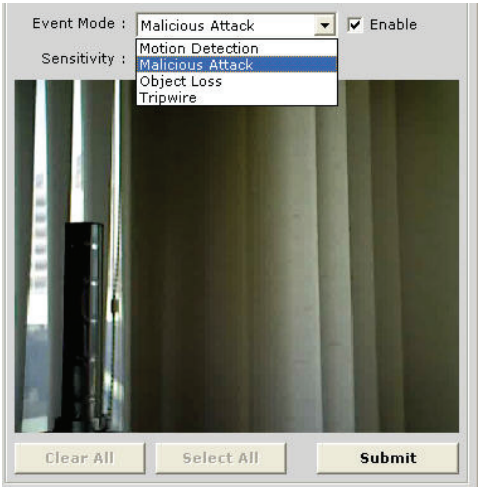


Finally, click "Submit" to save the configuration:



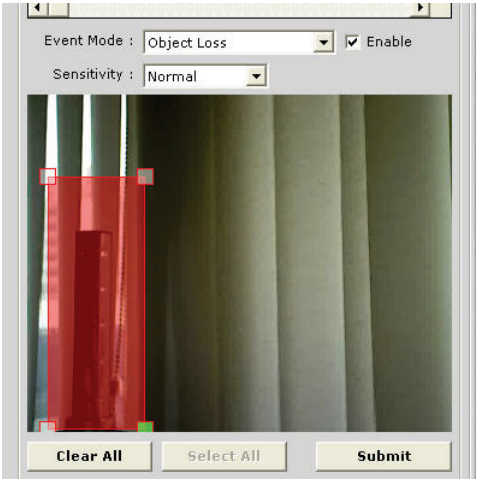
Configuring Malicious Attack

This is the function that when the camera is being physically tampered (sabotaged/or viewing area gets blocked), the CMS can detect such behavior and send out alert to the administrator. To enable this fuctions, simply select "Malicious Attack" from the "Event Mode" drop-down menu and click "Submit":



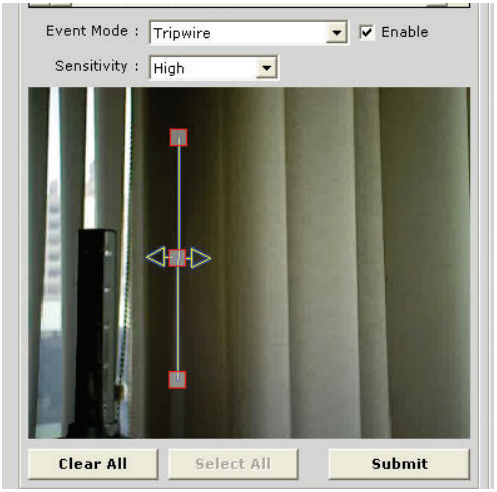
Configuring Object Loss

To select this function, select "Object Loss" from the "Event Mode" drop-down menu and then click and hold down the mouse left button and move diagnonally to draw an area (select the object in the scene) for object loss detection. The selected area(s) will be highlighted in red color like shown below:

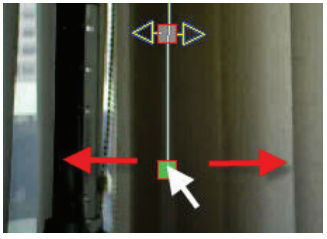


Configuring Tripwire

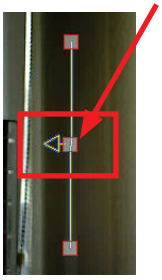
To configure tripwire, select "Tripwire" from the "Event Mode" drop-down menu. Click and hold down the mouse left button to draw a line on the video:

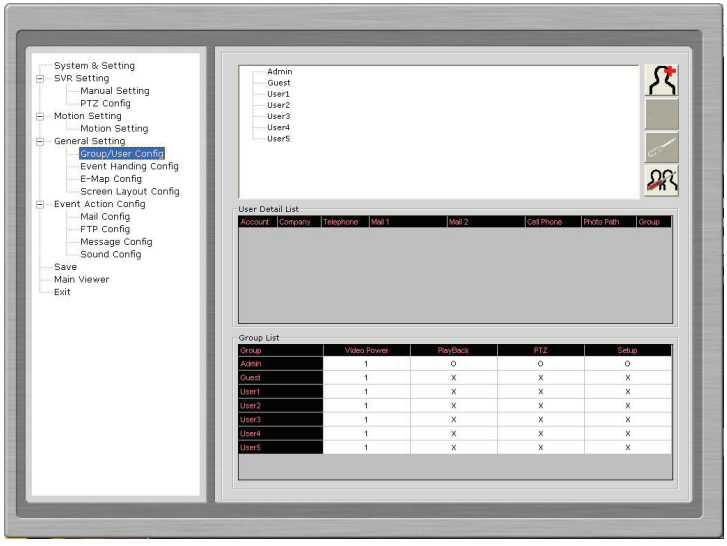


To re-arrange the position of the line, hover the mouse cursor onto either tip end and once you see the color of the cell box becomes green, click and hold down the mouse and move the cell box to a desired new position:



The tripwire function can be configure to detect traffic coming from one way or both. Bi-directional detection is enabled by default; to configure detection for one way only, click the cell box in the middle of the line. Click again to change direction.





Users and Groups Configuration

The section allows users to add new users and customize each of their access privilege by assigning them to different user groups. The purpose of this function is to limit the number of people to have access to the program, hence, having access to view live videos, playback videos or altering settings of the program.

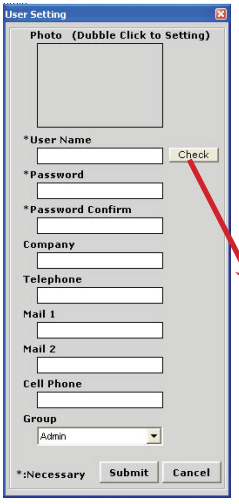
Once you add users to the program, you will be prompted to enter the username and password of a valid user account.

* There is no user account configured for the program by default.
The privileges of the "Admin" and the "Guest" groups are not configurable and the "Guest" account is configured with the "view only" privilege".

Add a New User

To add a new user, simply click on the "add new user" button available at the upper-right hand corner in the "User/Group Config" page.

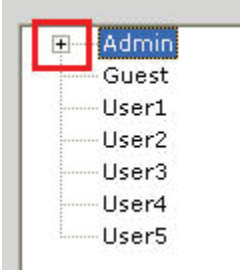
This opens up a new window for you to enter the detail information of the user you are creating.



* The "Username", "Password" and "Confirm Password" fields are required when creating a new user account. The rest of the fields are optional.

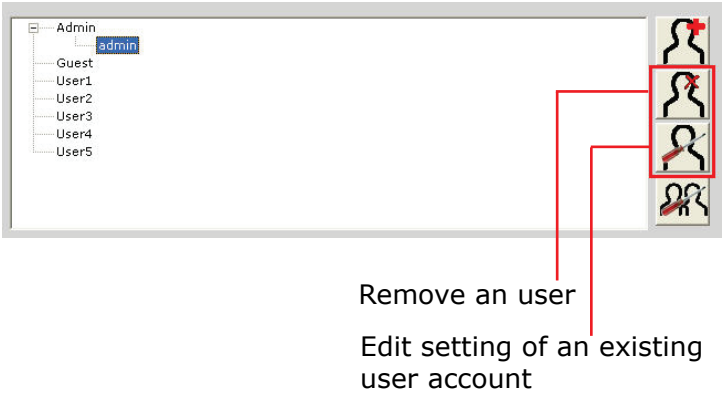
* You can click the "Check" button to check if the username you are creating for the new account has been used by another account.

A "+" will appear next to the group indicating a user has been added to that particular group. Click on the "+" to expand the group and all users will be displayed.



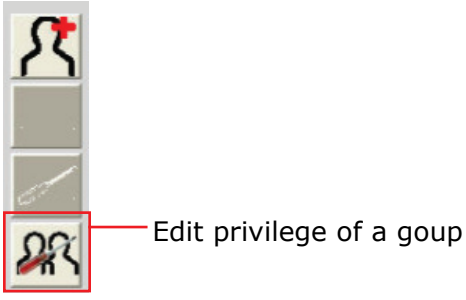
The “Remove” and “Edit” buttons will become available once a user has been created.

Click the “Remove” button to remove an existing user, or the “Edit” button to edit setting of an existing user account

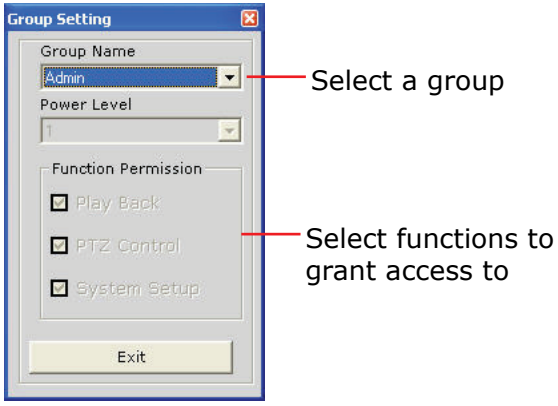


Edit Group Privilege

To edit access privilege of a particular user group, simply select a group first then click the “Edit Group” button.

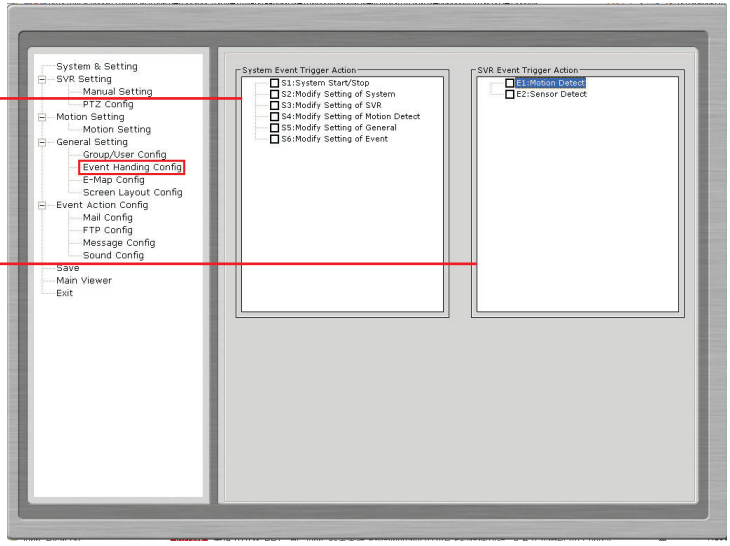


This opens up the the group privilege configuration dialog.
Select a group from the drop-down menu and check which function(s) this group has permission to.



General event conditions

NVR-specific event conditions



Event Handling Configuration

Here you can define what consititutes an event with pre-defined conditions and what actions to be taken when these conditions are met.

The conditions are devided into two categories:

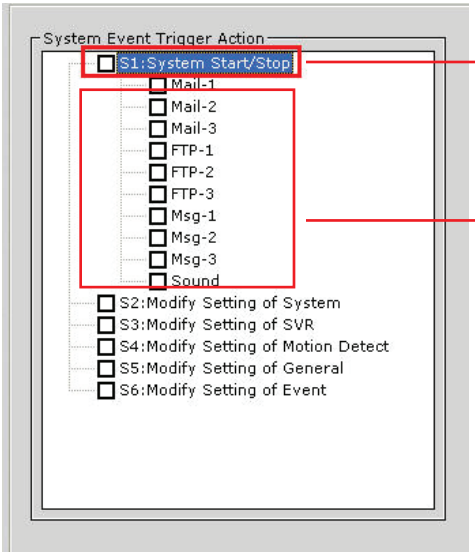
- General event conditions

Conditions such as settings being altered

- NVR-specific event conditions

Conditions such as motion detection

To enable a condition for event trigger, simply tick the checkbox of a particular condition.



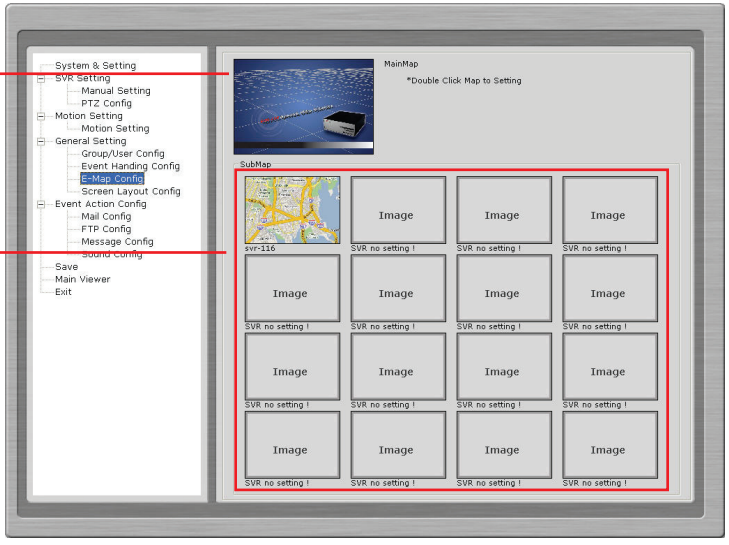
Event Condition
Tick the checkbox to enable
Double-click pulls down the event servers

Event Servers
Tick the checkbox to enable

Double-click on any condition pulls down the event servers which users can choose to use for that particular condition.
The event servers can be considered as actions that are taken place when events are triggered.

Main Map
The main map which displays locations of all NVRs

Sub-maps
Each sub-map displays the near-by area of a particular NVR which shows locations of all cameras connected to it



The E-Map

The program provides two-layered e-map which the top layer displays the location of all NVRs and the second layer (sub-map) displays locations of all cameras connected to one NVR.

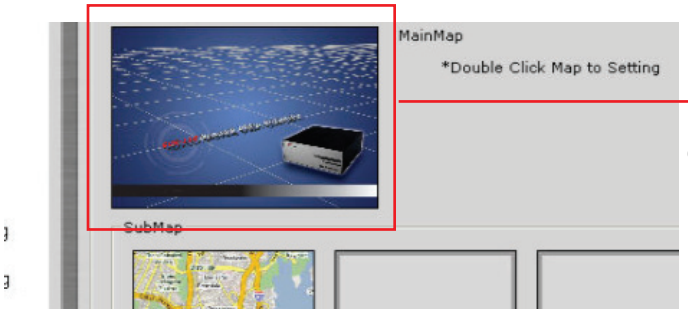
* There are 16 sub-maps and one for each NVR.

This function is particularly useful when motion detection is configured. You can simply place the e-map on one monitor and whenever there is motion detected, the NVR will be highlighted on the map and live video will be displayed for live event monitoring.

Configuring The E-Map

You can replace the map of your own when configuring e-map.

Simply double-click anywhere on the map to enlarge it.

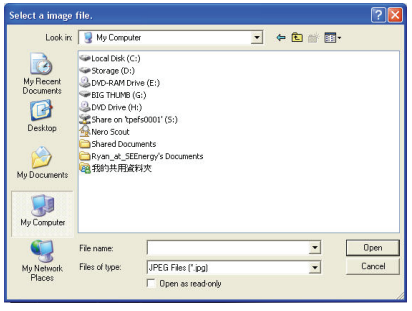


Double-click to enlarge the map

and double-click on the enlarged map again to open the dialog which lets you locate the new map file. You will need to select a map file that is in the JPEG file format.

Double-click to replace the map

Locate the new map file from the local computer



Once the new map is in place, move the red dots on the map to define locations of each NVR.

Drag and move the red dot to define location of a NVR

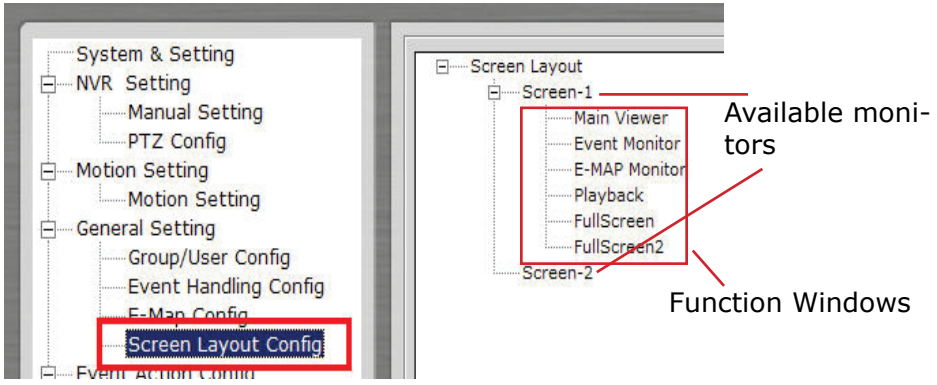
Click the "Save" button at the upper-right hand corner to save changes when you are done.

Save settings

* Use the same method described above to configure sub-maps for each NVR.

Set up Multiple Monitors

10

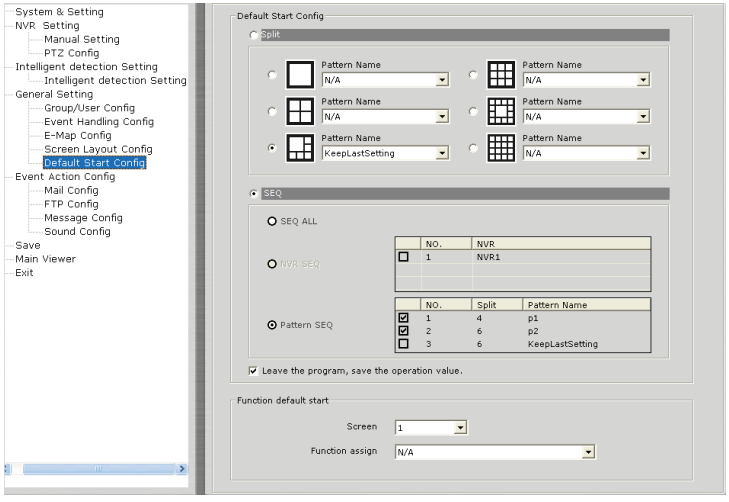


If you have multiple monitors configured in the PC, the CMS setup wizard can automatically detect such configuration and displays the available monitors.
You can find that in the setup wizard under "General Setting" >> "Screen Layout Config".
You should then see the available monitors on the right (Screen-1, Screen-2...etc).

By default, all the function windows are set to display on Screen-1.
You can then drag the desired function window and drop it to the monitor (ex. Screen-2) you wish it to be displayed on.

Default Start Config

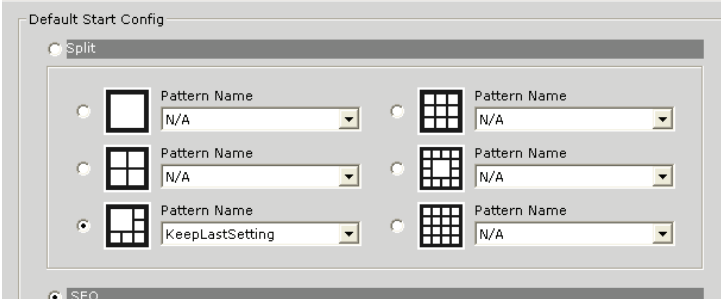
11



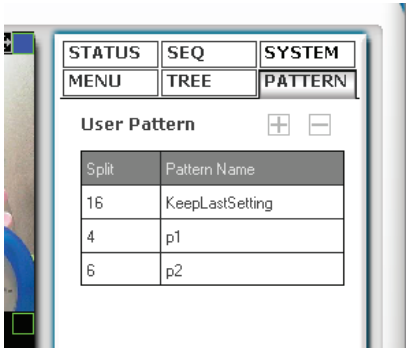
This is a function that allows you to keep the same viewing layout pattern everytime the program starts up. The followings can be saved for next startup:

- Viewing layout (split screen)
  - -Use the last layout before the program is closed
  - -Use one of the "patterns" defined in the main program
- Start sequence viewing by default
- Start the program with particular function pages (if multiple monitors are present)

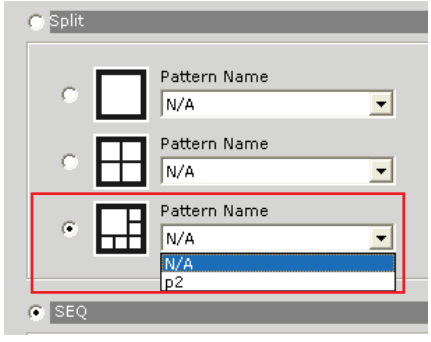
You can configure the program to start with a particular viewing mode (split screen). Simply make a selection under the "Split" section:



You can leave the drop-down menu as is it does not contain any selection by default. Once you start the main program and add view “patterns” like below:

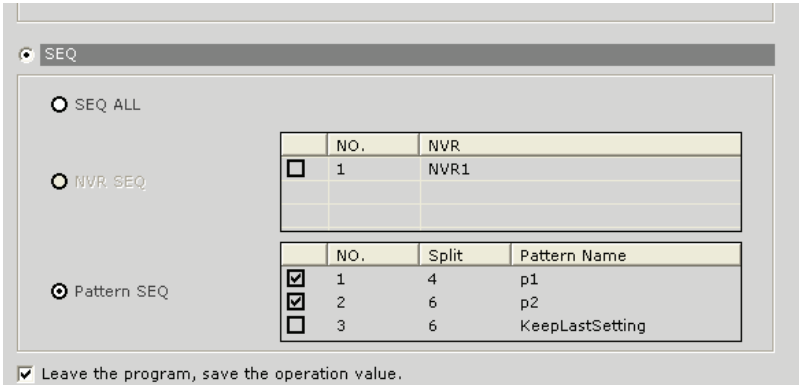


Exit the main program and go back to the config wizard. The patterns you created should be available in the corresponding drop-down menu under the “Split” section:



If you didn’t make any selection from the drop-down menu, the main program will automatically keep the last split mode before the program is closed and use it for the next startup.

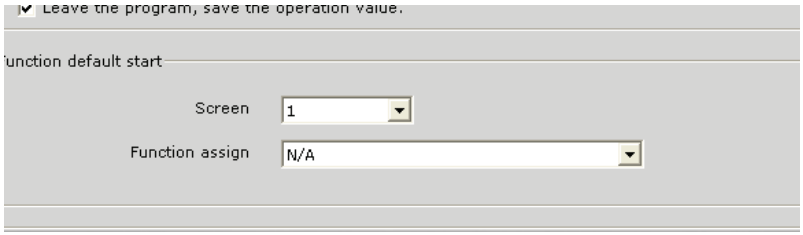
You are also able to start sequence viewing by default as soon as the main program starts up. To do so, make the selection to sequence all channels, between NVRs, or between patterns:

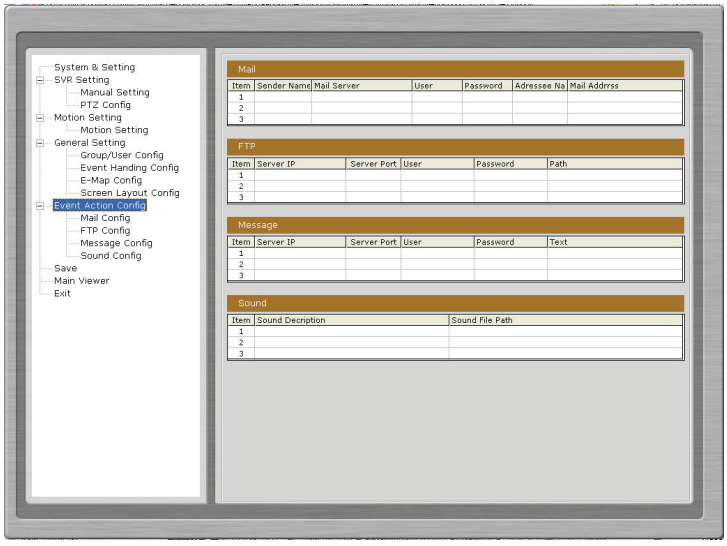


** Please make sure multiple NVRs are added to the program or the "NVR SEQ" option will be unavailable*

** Please make sure "patterns" have created in the main program or the "Patter SEQ" option will be unavailable*

You can also configure a particular function page to start by default on a particular monitor by making your selection under the "Function Default Start" section:





Event Servers are Event Actions

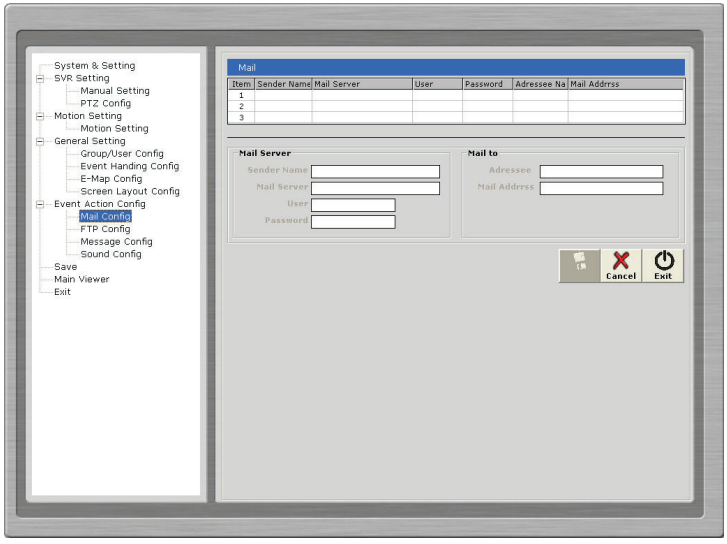
The program provides four different event servers that can be used when events are triggered.

- Mail server
- FTP server
- Message server
- Sound server

You can add up to three for each servers and pick the one(s) you would like to use for particular event(s).

You can get a configuration overview of all the event servers under the “Event Action Config” page.

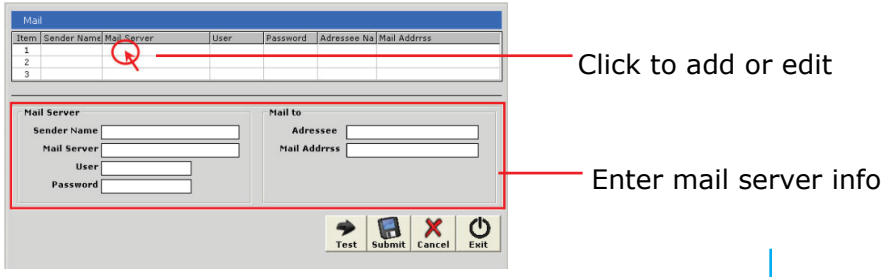
Configure Mail Server For Events



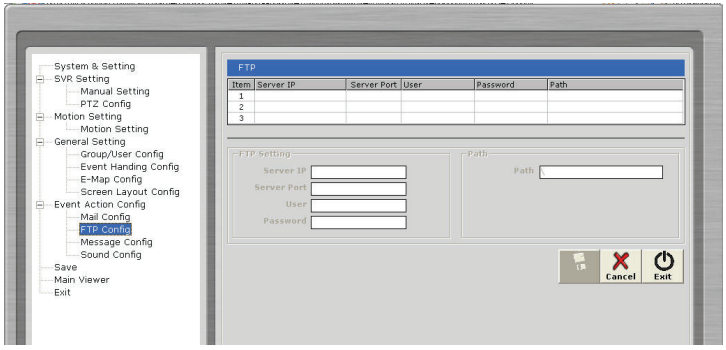
You can configure up to three mail servers in which you can select later and use them for different event trigger conditions.
When configuring an mail server, it's essential that you provide the following information:

- Mail server address (IP or FQDN domain name)
- Username and password for the mail server (if required)
- Recipient's e-mail address

To start adding a mail server, click on an item field and the setting boxes should become availble.
Enter the mail server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



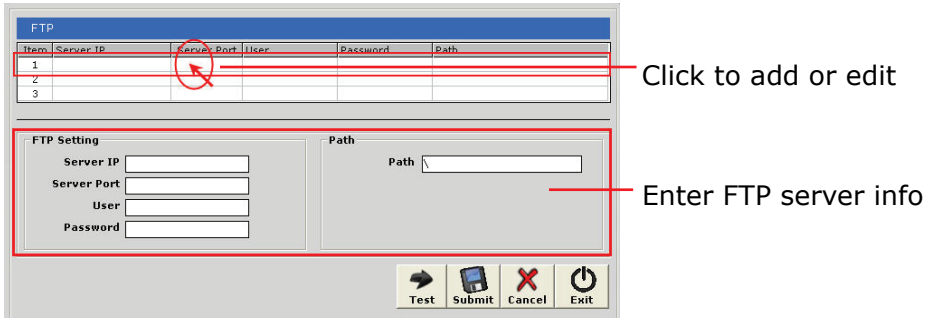
Configure FTP Server For Events



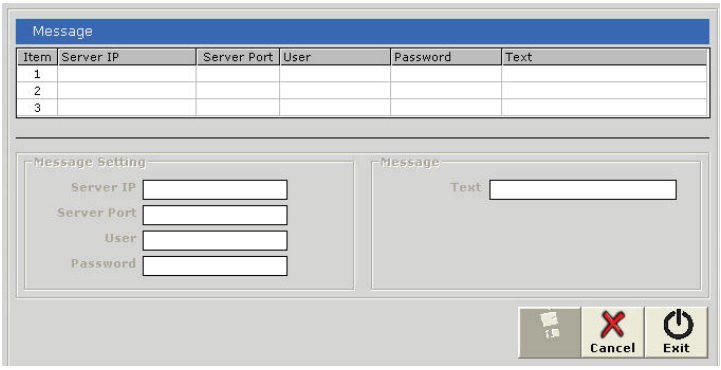
You can configure up to three FTP servers in which you can select later and use them for different event trigger conditions.
When configuring an FTP server, it's essential that you provide the following information:

- FTP server address (IP or FQDN domain name)
- FTP server port (such as port 21)
- Username and password for the FTP server (if required)
- Path to upload the files to (if not / directory)

To start adding an FTP server, click on an item field and the setting boxes should become availble.
Enter the FTP server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



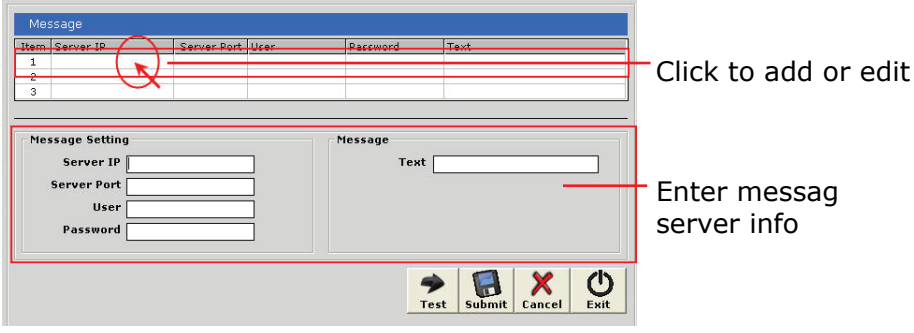
Configure Message Server For Events



You can configure up to three message servers in which you can select later and use them for different event trigger conditions.
When configuring a message server, it's essential that you provide the following information:

- Message server address (IP or FQDN domain name)
- Message server port
- Username and password for the Message server (if required)
- Text to be broadcasted

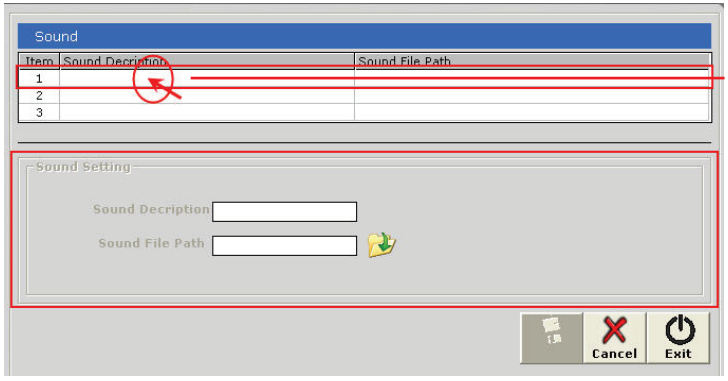
To start adding a message server, click on an item field and the setting boxes should become availble. Enter the message server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



Configure Sound Server For Events

You can configure the program to send warning sound from the system's speaker when events are triggered.

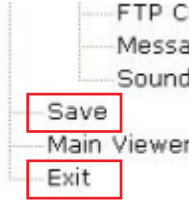
To start adding a sound server, click on an item field and the setting boxes should become availble.



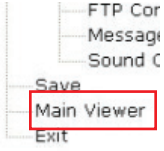
Click on the "folder" icon to locate the sound file. You may select a sound file that is only in the WAV file format.

Accessing the main program

Now that you have finished configuring the main program through its setup wizard, after saving all the settings (which you can do so by clicking on the "Save" button on the left pane tree menu), simply click "Exit" to close the Setup Wizard.

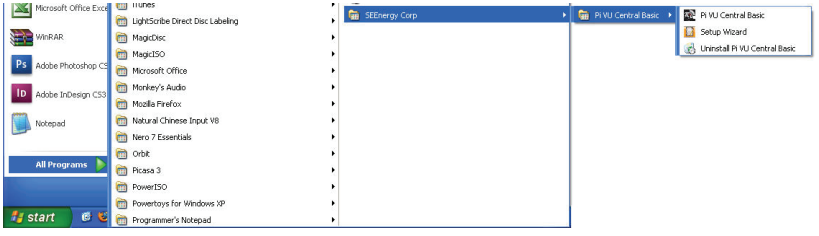


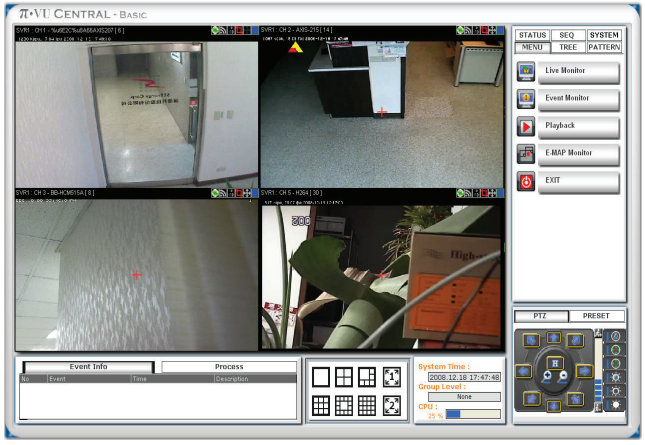
To access the main program, simply click on "Main Viewer" to exit the Setup Wizard and it will be open the main program automatically.



You can then access the main program by double-clicking on the short cut icon located on the desktop.

Or you can access the main program by simply go to "Start" >> "All Programs" >> "Seenergy" >> "Pi-Vu Central Basic">>"Pi-Vu Central Basic"





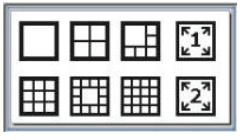
Working with the Live Video Page

This page basically provides you the ability to view, and manage the video streams of each channel.

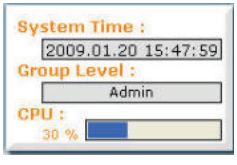
The program provides certain functions which helps users to monitor effectively.

- Video Function Bar

- View Window Switcher

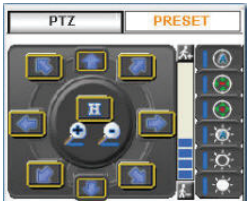


- System Information



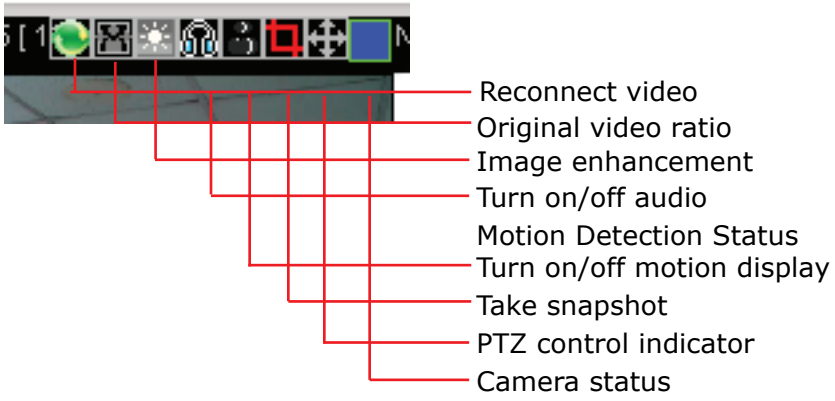
- Side Menu Bar

- PTZ Control



Video Function Bar

The function bar is available for each video window. The function bar provides the following functions:



Reconnect video

If you find the video is streamed at a lower frame rate than it should or the video is simply lost, you can click this button to re-initiate the connection with the camera and receive the stream again.

Turn on/off audio

If the camera supports audio function, you can click this button to receive audio from the camera.

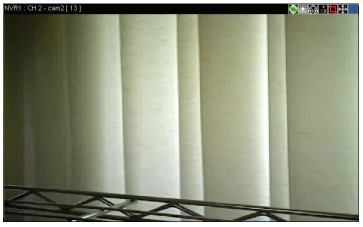
This function is turned off by default and you can only receive audio from one channel at a time.

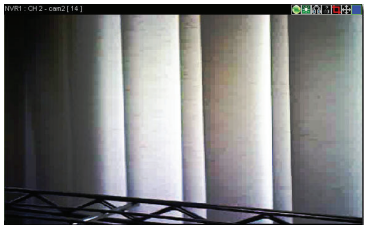
Original Video Ratio

The program adjust its window size according to the size and display ratio of the monitor. By default, videos are configured to fill up their video windows and may not be displayed in its original ratio. Click this button will set the video to be displayed at its original display ratio.

Image Enhancement

This function improves the visibility of the video under low light conditions:





Motion Detection Status

This icon serves the function to display whether motion detection has been configured for this channel.

If it's not configured, the icon is grayed out

If it's configured, it will be in light grey

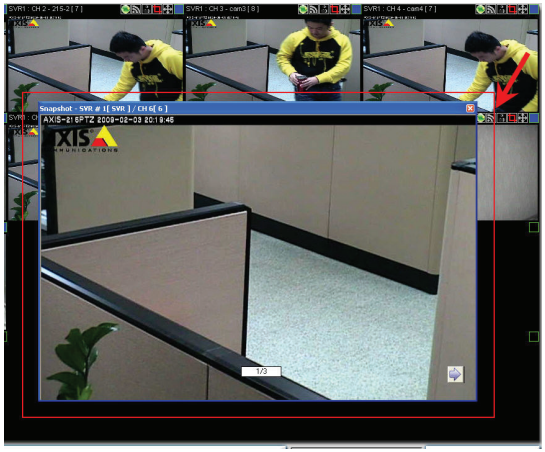
Turn on/off Motion Display

Once a channel is configured with motion detection, click the same icon allows you to turn on motion display which adds highlights on moving objects in the video. The icon will show in red when this function is turned on.

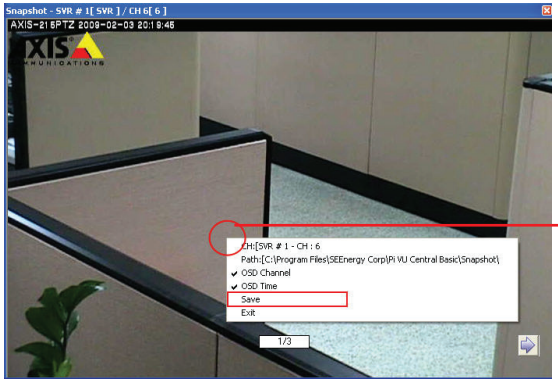
Take a Snapshot

The function allows you to take snapshots of the live video and save them on your local computer.

Simply click on the icon, and the snapshot of the video will be displayed in a pop-up window.



Right-click anywhere on the pop-up window will give you the option to save the snapshot.



** The snapshot is automatically saved in a pre-defined folder under the directory where the program is installed.*

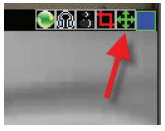
PTZ Control Indicator

You are able to control one PTZ camera at a time and this icon tells users which camera is currently selected for PTZ action.

The video window will also be highlighted with blue color to indicate it's currently being selected.

PTZ icon shown in red meaning this is a PTZ camera, or it would grayed out.
* If the icon indicates in red: Mouse-over-video PTZ is enabled.

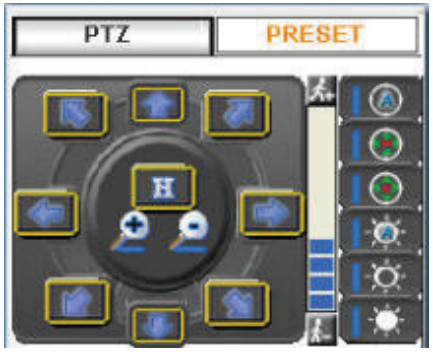
highlighted with blue color



PTZ control indicator displays in green: digital PTZ is enabled
* Digital PTZ function is only availble for the "non-PTZ types of cameras)

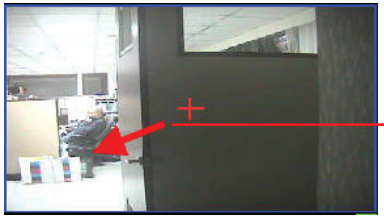
Using PTZ Control Panel

Once a video is selected for PTZ action **(right-click on a video to select)**, you are able to do the PTZ with the PTZ control panel,



Use Mouse-over-video PTZ

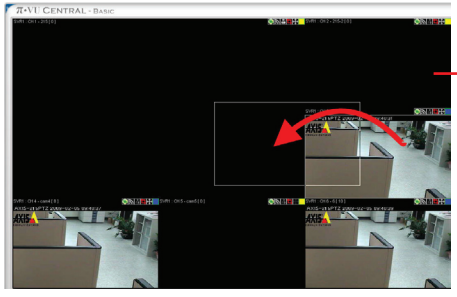
or you can simply move the mouse onto the video, an arrow and the crosshair should be displayed. Simply right-click on the video to pan and tilt the camera. Use the mouse scroll button to scroll down to zoom in and scroll up to zoom out



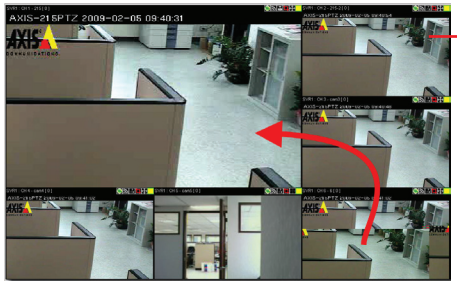
right-click to pan and tilt, use mouse scroll button to zoom in/ out

Drag and Drop to Relocate Videos

On the live view page, you can simply drag the video to re-arrange its location or switch location with another video.



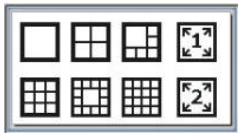
Drag a video and drop it to a new location



Drag a video and switch place with another video

View Window Switcher

You can use this function to switch between different view patterns and set up how videos are displayed on the screen.



Support Two Full Screen View

The program supports two full screen view if there are more than one monitors connected to the PC. You can view up to 16 live video on each full screen with configurable view patterns.

The first full screen displays videos in full screen with its current view pattern layout (if it's displaying videos in a 6 split window view, the same displays in full screen)

The second full screen displays videos in full screen in a 16 split window by default. You can change the layout by right-click anywhere on the screen and make selection from the drop-down menu.

Side Menu Bar

You can access all functions of the program from the side menu bar. Some can be displayed onto different monitors if you enabled this function in the Setup Wizard.

A list of the functions available from the side menu:

- Live Monitor
- Event Monitor
- Playback
- E-Map Monitor
- NVR and Camera Status
- Camera Tree List
- Sequence View
- Create patterns for different split view
- Service Mode
- Check Program Version
- Change Display Language

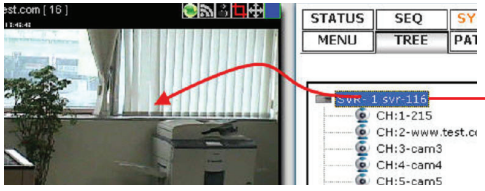
Camera Tree List

You can retrieve a list of the cameras and NVRs from the side menu bar. Simply click on the "TREE" menu to access this function.

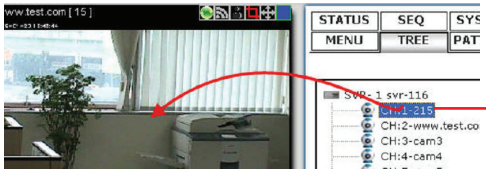
By default, only the NVRs are listed. You can double-click on any of them to retrieve the camera list of that NVR.

You can then drag an NVR from the list and drop it onto the live video area, in which all cameras' videos will be displayed.

You can also drag one camera from the list and drop it onto any video window to display video from that camera.



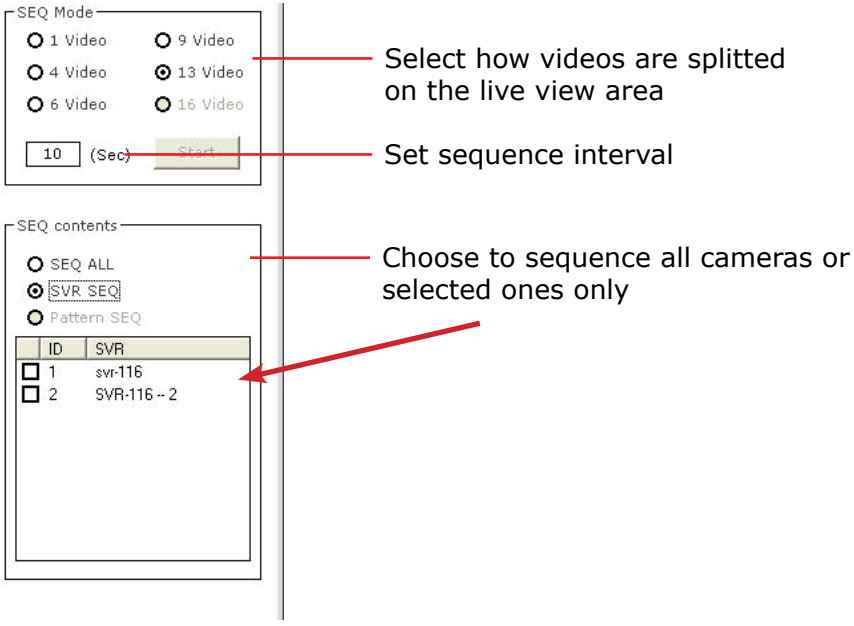
Drag and drop an NVR



Drag and drop a camera

Sequence View

This is a useful tool which you can simply setup the program to display videos from certain or all cameras and the program will automatically switch views for you. You can also set up the sequence interval and decide how long you would like each video to stay on the screen.



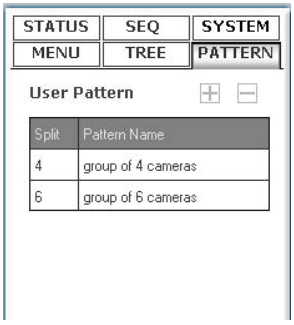
** The "Pattern SEQ" will not become available until you create "patterns" under the "PATTERN" menu*

** The "Pattern SEQ" will not become available until you create more than one patterns under the "PATTERN" menu*

Live View Pattern Groups

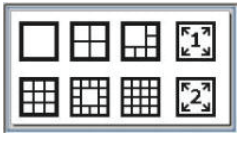
You can create multiple profiles for different live view split layouts. This is a extreme useful function in a larger environments where you have many cameras in place and multiple cameras setup for each area.

After the "patterns" are created, you can head back to the "SEQ" menu and enable the "Pattern SEQ" feature. This will ask the program to display videos from the "pattern" groups in sequence.

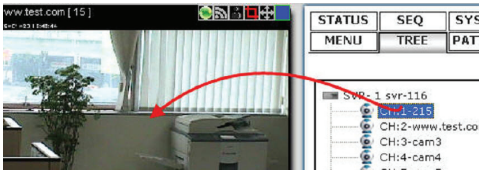


To configure view pattern groups and set it for pattern sequence view:

1. Select a view layout first



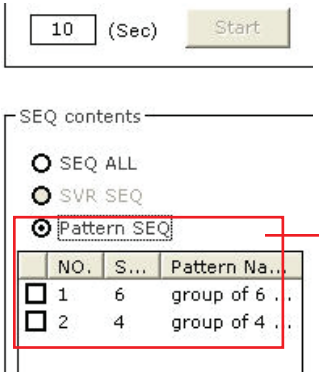
2. Then, select cameras from the camera tree list



Drag and drop videos on the screen to arrange their locations as you desire.

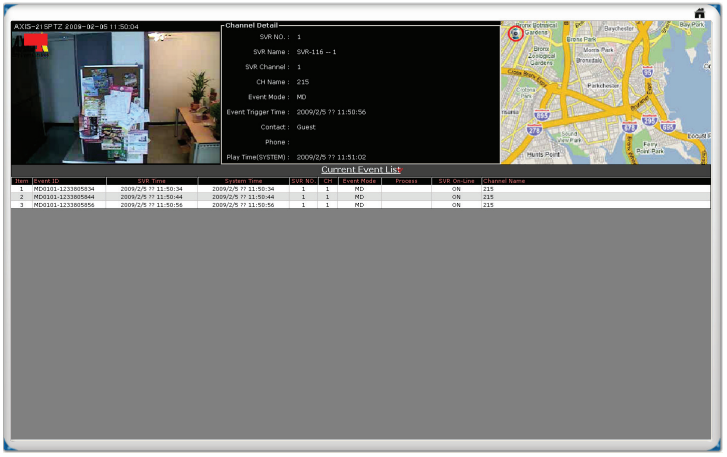
3. Click the "+" sign under the "PATTERN" menu to add it

3. Go back to the "SEQ" menu and select "Pattern Seq" and the patterns should be available.



Select the ones for sequence viewing

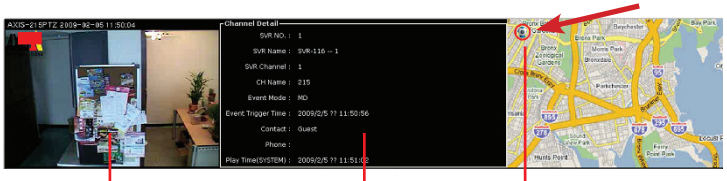
Event Monitor



** This page can be displayed on another monitor*

The Event Monitor is an advance live video monitor tool that combines functions of

- Single live video view from camera that's triggered with events
- Channel configuration information
- Event log, search, playback
- E-Map displays cameras' locations which were triggered with events



Video from the camera that was triggered with event

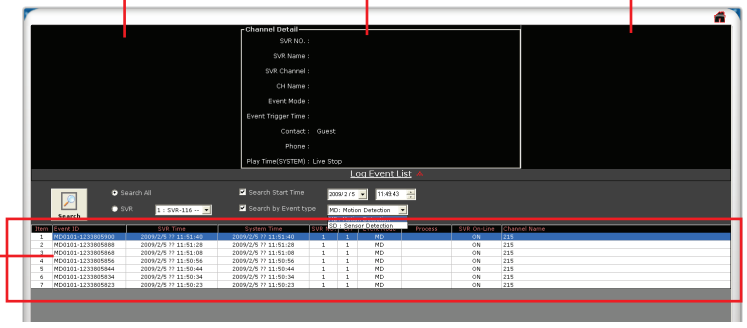
Detail information of the camera, such as channel number, which NVR it's connected to...

The location of the camera will be displayed on the E-Map

Playback Events from Event Monitor

The program will log continuously when new events are triggered. Simply click on one to start playing back the video. Its corresponding configuration and localtion will also be displayed accordingy.

Playback video Channel info Camera location

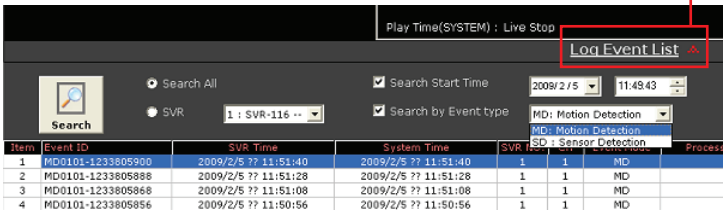


Click on one to start playing back an old event

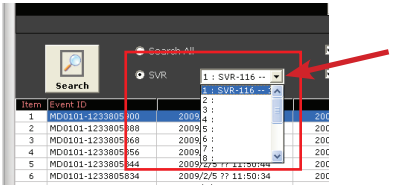
Filter and Search Events

While the event logs keep stacking up the screen, it's difficult to look for a particular event for playback. You can then use the search function and filter the search result by either search from a event start time, search by event type, or both.

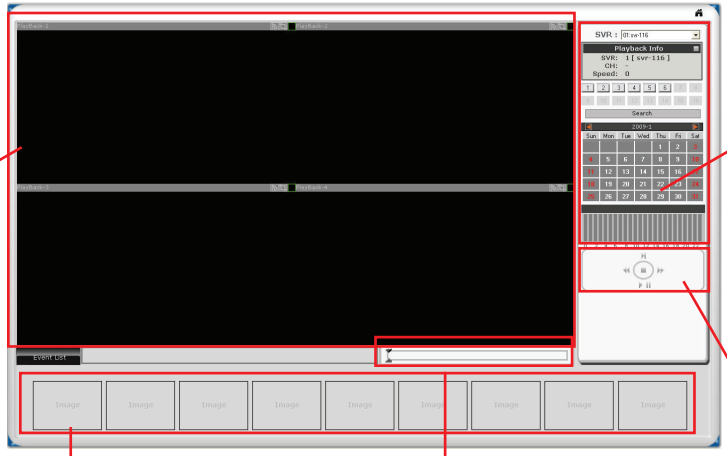
Double-click to open the search dialog


Play Time(SYSTEM) : Live Stop
Log Event List
Search
Search All
SVR
1 : SVR-116 --
Search Start Time
2009/2/5
11:49:43
Search by Event type
MD: Motion Detection
MD: Motion Detection
SD : Sensor Detection
Item
Event ID
SVR Time
System Time
1 MD0101-1233805900 2009/2/5 ?? 11:51:40 2009/2/5 ?? 11:51:40 1 1 MD
2 MD0101-1233805888 2009/2/5 ?? 11:51:28 2009/2/5 ?? 11:51:28 1 1 MD
3 MD0101-1233805868 2009/2/5 ?? 11:51:08 2009/2/5 ?? 11:51:08 1 1 MD
4 MD0101-1233805856 2009/2/5 ?? 11:50:56 2009/2/5 ?? 11:50:56 1 1 MD

You can also narrow the search results by performing search to a particular NVR.



** The event trigger interval is set at 10 seconds*

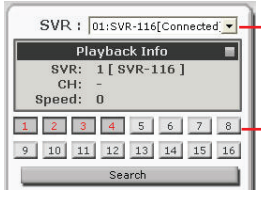

Playback search
Playback videos
Recorded events thumbnamils
Playback controls
Playback slider to jump to a particular time of the current playback videos

** This page can be displayed on another monitor*

The program supports 4-channel syncronous playback in a quad view layout. Search results that include events will be marked in blue on the calendar and their corresponding event thumbnails will be displayed at the bottom to reduce the search time and effort.

Searching for Playback Videos

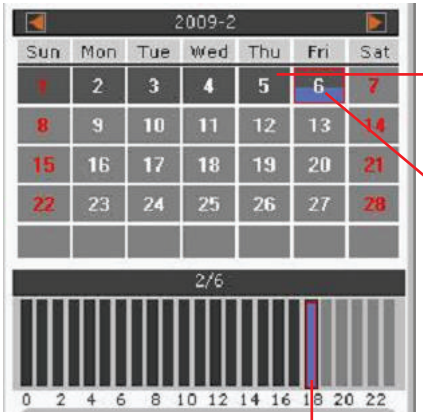
To start looking for playback videos, simply select an NVR from the drop-down menu first and select which channels to look for playbacks.



Select an NVR first

Select channels to perform search

Search results will then be displayed on the calendar indicating which days have recordings available.



Days marked in dark gray means recordings available (manual/ schedule recordings)

Days marked in blue means there are events being recorded

Click on a day will shows what hours of that day recordings were performed. Click on a particular hour to start playing back videos.

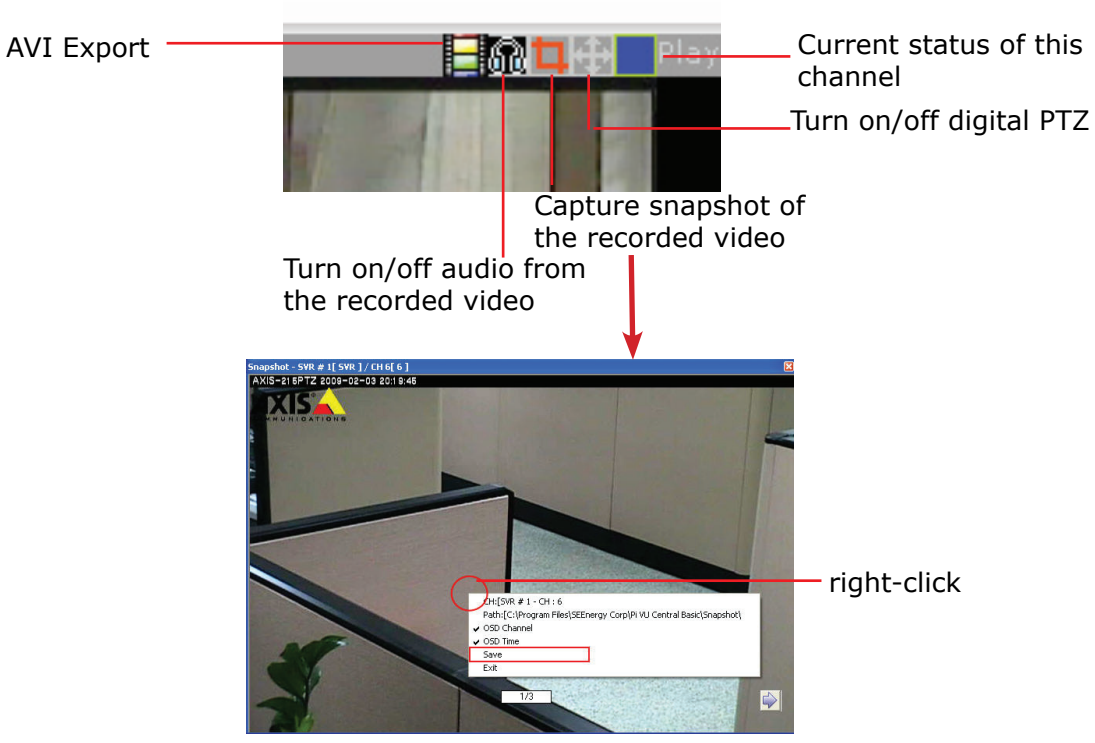
If you click on an hour which event recordings were performed, the program will display the thumbnails of the first frame from each trigger at the bottom.

This is useful for users to help them quickly find the footage that's meaningful to them instead of fast-warding few times.

You can also use the time bar and go directly to a particular start time.

Capture Snapshots of a Playback Video

This is the same function that is available in the live view page. Each playback video windows comes with function bar at the upper-right hand corner.


AVI Export
Current status of this channel
Turn on/off digital PTZ
Capture snapshot of the recorded video
Turn on/off audio from the recorded video
right-click
Snapshot - SVR # 1[SVR] / CH 6[6]
AXIS-216PTZ 2009-02-03 20:19:46
CH:[SVR # 1 - CH : 6
Path:[C:\Program Files\SEEnergy Corp\Pi VU Central Basic\Snapshot\
OSD Channel
OSD Time
Save
Exit
1/3

AVI Export

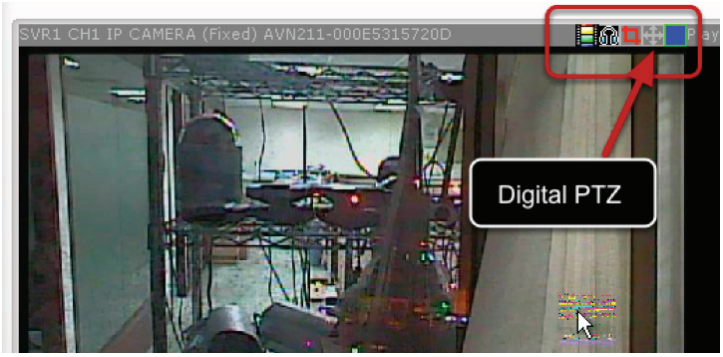
You can export the recorded videos to AVI files and save them onto a local hard disk. Simply click on the "AVI Export" icon while a video is being played back. Click it again to stop the process.

- *All exported videos are automatically saved in the "AVI" folder under the program installation directory.*
  "Ex.: C:\Program Files\SEEnergy Corp\Pi VU Central Basic\AVI"
- *The program allows a maximum of one hour of video per channel to be exported*

Using Digital PTZ in Playback

This is the same function that is available in the live view page. Each playback video windows comes with function bar at the upper-right hand corner.

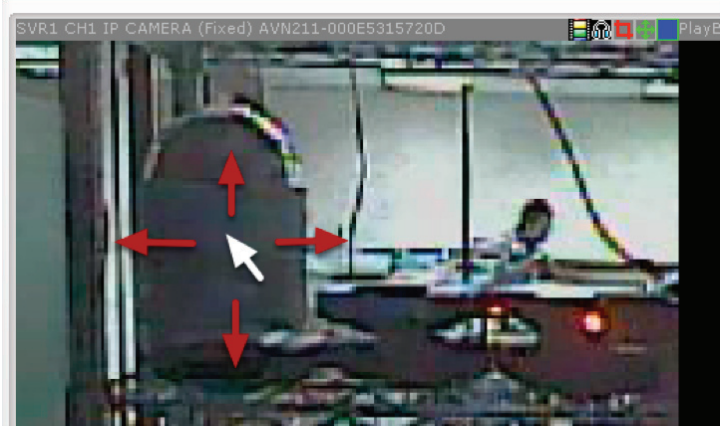
Each video window in Playback comes with a quick function bar. The digital PTZ function can be turn on/ off from there. By default, the digital PTZ function is turned off



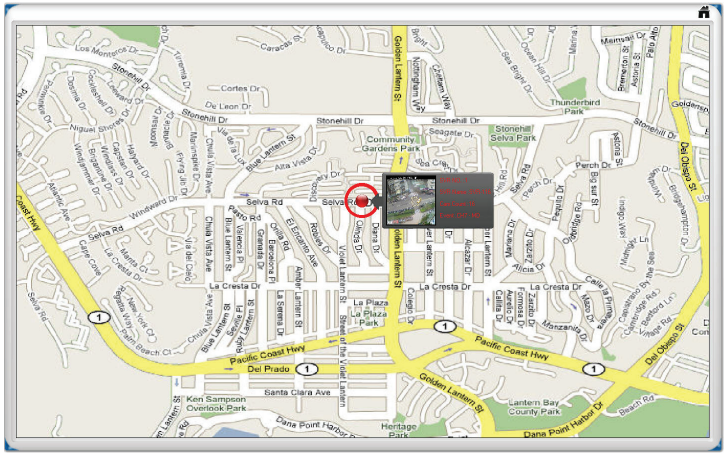
Click the "digital PTZ" icon to turn it on and the icon should indicate in green. A red rectangle should also be displayed at the lower-right hand corner indicating the digital PTZ mode is turned on

Left-click and hold down the mouse button and move diagonally on a desired area on the video to draw a rectangle to zoom into the area

The area should then be zoomed in. Left-click and hold down the mouse button and move the mouse to any desired location to move the zoomed area. You can use the mouse scroll button for zoom in more (scroll forward) or zoom out (scroll backward)



Right-click the mouse button anywhere on the video to go back to its original status



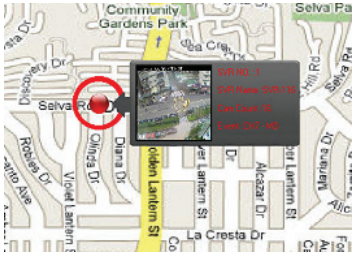
The E-Map provide a simple overview of where events are happening. This allows users to only pay attention to what's meaningful to them.

This function comes with two layers of maps where the first layers represents locations of each NVR.

This is normally referred as the main map which a map with overview of a larger scale area should be used.

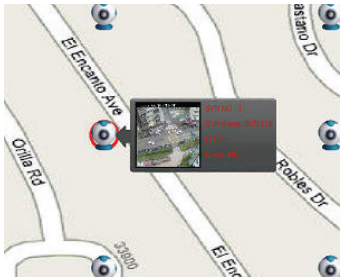
Once there's an event triggered from a particular NVR, the location of the NVR will be circled in red to notify users an event has been triggered.

The video and event trigger type are also displayed on the map.

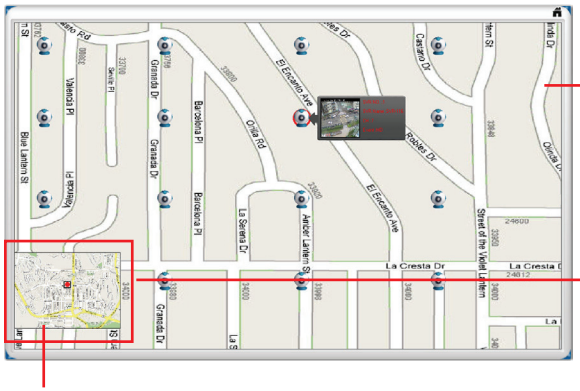


Double-click on the red dot (the location of the NVR) will take you to the sub map where the locations of all the cameras within will be displayed.

The camera of which the event is triggered from will be circled in red to tell the user the location of the event in a more detail manner.



The sub map provides the PIP (Picture-in-Picture) view which the main map is embedded in the sub map so that users can still know if there are events being triggered from other NVRs at the same time.



Simply double-clicking the embedded main map to go back to the main map view.

Service Mode

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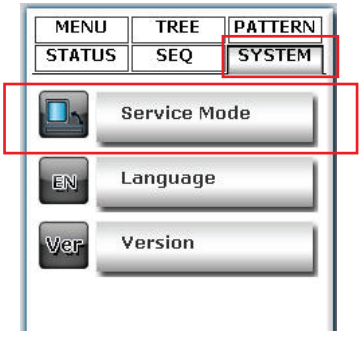
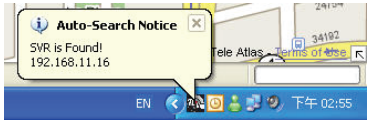
If you are using a PC that is not dedicated to run this program only (working with some other programs at the same time), you can turn on the service mode, which can be accessed from the side menu bar under the "**SYSTEM**" menu, select "**Service Mode**".



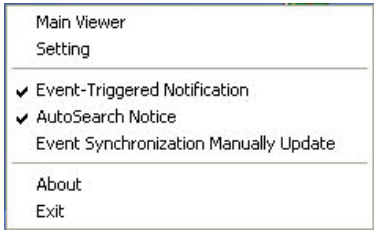
This will minimize the program to the Windows system tray

The function to detect new NVR and event trigger notification will continuely to work in the background.
You will get notification from the tray if the program has detected a new NVR has been placed on the network.



A small video will also be popping out from the tray to notify you that an abnormal motion has been detected.

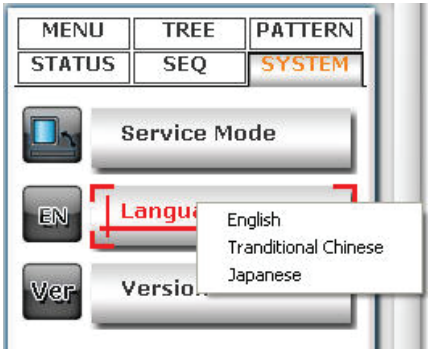
Right-click on the program tray icon gets you other functions



- Maximize the program
- Close the main program and open the Setup Wizard
- Turn on/off event notification (on by default)
- Turn on/off NVR Smart Search (on by default)
- Switch to synchronize events manually (off by default)
- About the program
- Exit the program

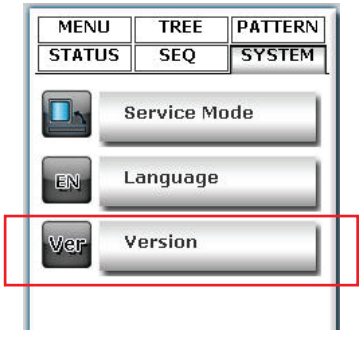
Change Program Display Language

The program provides multiple languages user interface. To change the display language, go to the side menu and select "**SYSTEM**" >> "**Language**" and select a desired language from the drop-down menu.



Check Program Version

To check the program's version, go to "SYSTEM" >> "Version".



About Pi Vu , ver: 1.0.0.20 Build-2009020410
Windows xp
Professional
Microsoft
Copyright © 1985-2001 Microsoft Corporation
Microsoft @ Pi Vu , ver: 1.0.0.20 Build-2009020410
Version 5.1 (Build 2600.xpsp_sp2_gdr.080814-1233 : Service Pack 2)
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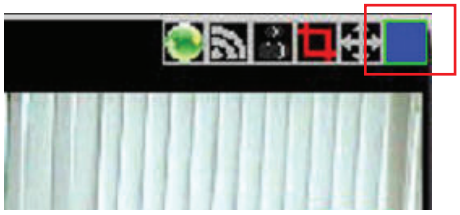
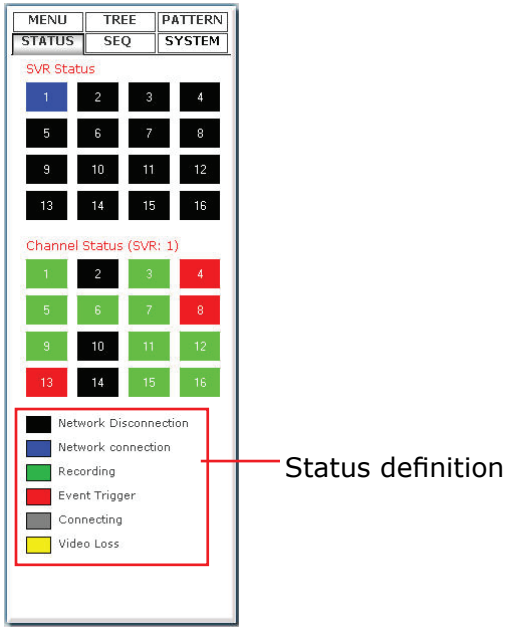
Programming: Windows Team
This product is licensed under the terms of the End-User License Agreement to:
Ryan
Physical memory available to Windows: 2,096,300 KB
OK

Check Camera and NVR Status

On the live view page, each camera's current status is displayed in the upper-right hand corner of the video window



You can, however, obtain status of all NVRs and the cameras from the side menu under "STATUS"



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